# PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE CONSTRUCTION OF ADA COMPLIANT RAMPS, INSTALLATION OF COUNTDOWN PEDESTRIAN SIGNAL HEADS, APS PUSHBUTTONS AND SIGNS ALONG THE EAST LEG OF THE INTERSECTION. MD 135 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

## INTERSECTION OPERATION

THIS INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE FULL-TRAFFIC-ACTUATED MODE WITH AN ALTERNATE PEDESTRIAN PHASE FOR THE EAST LEG OF THE INTERSECTION. THE LEFT TURNS AT THIS INTERSECTION OPERATE IN PERMISSIVE PHASING. A RAILROAD PRE-EMPTION PHASE IS PROVIDED.

### CONTROLLER REQUIREMENTS

THE EXISTING FULL—TRAFFIC—ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH TELEMETRY CABLE HOUSED IN A BASE MOUNTED CABINET SHALL REMAIN. THE BATTERY BACKUP HOUSED IN A BASE MOUNTED CABINET SHALL ALSO REMAIN. A 2-WIRE APS CENTRAL CONTROL UNIT SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY SHA.

### SPECIAL NOTES

APS WILL FUNCTION AS FOLLOWS:

TO CROSS MD 135 (CHURCH ST):

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS CHURCH AT NEW GEORGES CREEK. WAIT."
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

# EQUIPMENT LIST "A, B & C"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA UNIT QUANTITY DESCRIPTION ITEM NO. SHEET ALUMINUM GROUND MOUNTED SIGN 33 30"X30" 2 - W11-2 FY 21"X15" 2 - M6-2 FY 18 "V18 " 1 — SPECIAL 95

9571	SHEET ALUMINUM MAST 2 - R10-3(1)	ARM/POLE MOUNTED SIGN	SF	2			
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR							
ITEM N	O. DESCRIPTION		UNIT	QUANTITY			
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IIEM NO.	DESCRIFIION	ONTI	QUAL
1001	MAINTENANCE OF TRAFFIC	EΑ	
5003	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS	LF	
5004	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF	
6001	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH	LF	
6002	5 INCH CONCRETE SIDEWALK	SF	
6003	DETECTABLE WARNING SURFACE FOR CURB RAMPS	SF	
8002	2-WIRE CENTRAL CONTROL UNIT	EΑ	
8008	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS	EΑ	
8009	BREAKAWAY PEDESTAL POLE (ANY SIZE)	EΑ	
8015	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD	EΑ	
8023	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)	EΑ	
8038	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	
8039	WOOD SIGN SUPPORTS UP TO 4' X 6'	LF	
8040	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)	SF	
8042	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	
8053	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	
8055	ELECTRICAL CABLE — 5 CONDUCTOR (NO. 14 AWG)	LF	

C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

#### RYG PHASE 2 AND 6 | DW | DW |DARK| DARK|<√ $R \mid R$ L DW | DW |DARK| DARK|-RR R 2 AND 6 CHANGE PHASE 4 AND 8 DW | DW | DARK | DARK | 4 AND 8 CHANGE $R \mid R \mid$ R I DW | DW |DARK| DARKH T PHASE 4 AND 8 ALT $R \mid R \mid$ RRG WK | WK |DARK|DARK R | R | G PED CLEARANCE G |FL/DW|FL/DW|DARK|DARK 4 AND 8 ALT RIRIYIYI | DW | DW |DARK|DARKH CHANGE RAILROAD DW DW 🚳 🚳 PRE-EMPTION RAILROAD R DW DW 🚳 PRE-EMPTION CLEARANCE FLASHING L/Y|FL/Y|FL/Y|FL/R|FL/R|FL/R|FL/R|FL/R|DARK|DARK|DARK| DARK| OPERATION

PHASING CHART

1 2 3 4 5 6 7 8 9 10 11 12 13

## CONTACT PERSONS FOR DISTRICT #6 ARE AS FOLLOWS:

MR. GEORGE SMALL ASSISTANT DISTRICT ENGINEER-TRAFFIC PHONE: (301) 729-8444

MR. DWAYNE BITTNER ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (301) 729-8457

MR. STEPHEN BUCY ASSISTANT DISTRICT ENGINEER - CONSTRUCTION

## CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MS. CORREN JOHNSON DIVISION CHIEF, TRAFFIC OPERATIONS (410)787-7630

PHONE: (301) 729-8411

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS

MR. ED RODENHIZER CHIEF, SIGNAL OPERATIONS (410)787-7650

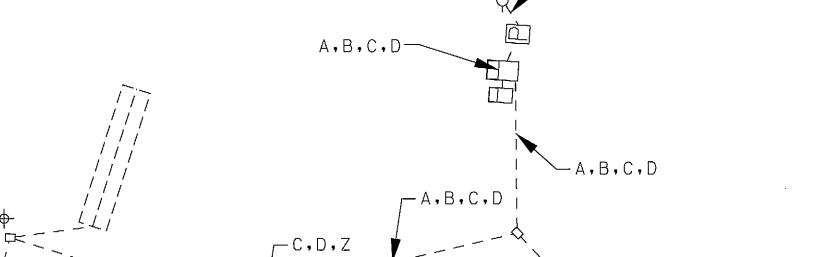
MR. EUGENE BAILEY CHIEF, SIGN OPERATIONS (410)787-7676

(410)787-7631

### WIRING KEY

5-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG) 2-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG) STRANDED BARE COPPER GROUND WIRE (NO.6 AWG)

EXISTING POWER FEED EXISTING GROUND ROD



#9004-989-

# GENERAL NOTES

- 1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
- 3. ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- 5. ALL PEDESTAL FOUNDATION TOPS SHALL BE INSTALLED FLUSH WITH SIDEWALK GRADE.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MDMUTCD CHAPTER 4E "PEDESTRIAN CONTROL FEATURES" AND FIGURES 4E-3 AND 4E-4, AND THE LATEST NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- 7. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- 8. PUSHBUTTON ARROWS AND SIGNS ARE TO BE ORIENTED PARALLEL TO THE CROSSING FOR WHICH
- 9. THE CONTRACTOR SHALL CAP AND ABANDON CONDUITS FEEDING EXISTING SIGNAL EQUIPMENT THAT IS REMOVED.
- 10. THE CONTRACTOR SHALL CONTACT ED RODENHIZER AT THE SIGNAL SHOP (410) 787-7652 TO DELIVER APS EQUIPMENT FOR TESTING.

TOD NO: 650-28 SHA NO: AL410B52 MD 36 @ MD 743, MD 135 @ MD 36, MD 658 @ Linda Way, US 220 @ MD

TS NO. 322IB-GI

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

MD 36 (NEW GEORGES CREEK ROAD) AT MD 135 (CHURCH ST) WESTERNPORT, MARYLAND

GENERAL INFORMATION SHEET

DRAWING SP-2 OF 8

REVISIONS

SCALE NONE DATE MARCH 2013 CONTRACT NO. XX6505185 ALLEGANY DESIGNED BY COUNTY LOGMILE 01013501.81 TIMS NO. \_\_\_\_\_\_L651 TOD NO.

SHEET NO. 2 OF 10

Rummel, Klepper & Kahl, LLP 81 MOSHER STREET | BALTIMORE, MD 21217 Engineers Construction Managers Planners Scientists

190

265 183

700

400

RKSK

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